



EDITORIALS:

- Installment Tuition
- Sports and Television

Dormitory Fall Acquaintance Dance To Be Held On Oct. 10th

Tickets are now on sale in the main lobby of Building 10 for the Annual Dormitory Fall Acquaintance Dance.

The dance is to be held in Walker Memorial on Friday evening, October 10, from 8 till 12 o'clock. The price of admission is \$1.25. Hundreds of girls from such surrounding schools as Wellesley, Radcliffe, Simmons, Boston University, etc., will be present. The enthusiastic turnout of girls to earlier fall dances indicate a rousing crowd for this event.

Plans are to decorate Walker Memorial in the Autumn motif, with lanterns, pumpkins, and all the trimmings, including a liberal supply of hay. The entire orchestra will be dressed in rustic costume, to fit the occasion.

The schedule calls for both Square and Ballroom dancing, a departure from standard practice. Eight professional dancers will be present to give free instruction to anyone who desires it. A professional caller, Hayden Swett, will be present to call the Square Dances. Refreshments on hand will include punch and cookies.

The Dormitory Social Committee has planned long hours to make this dance a success.

Mock Stockholders Meeting At M.I.T.M.A. Will Show How Corporation Operates

The General Mills Company will hold a mock stockholders meeting at the next get-together of the M.I.T.-M.A. early in November. The meeting will duplicate a real stockholders meeting in all respects, with the exception of voting.

The president and controller of the company will direct the meeting. Complete plans will be announced soon by the M.I.T. Management Association, student organization for Course Fifteen.

A spokesman for the organization pointed out that this novel approach to the demonstration of corporation mechanics is a new and unique teaching technique.

FOOTBALL TICKETS

T.C.A. Ticket Service has each week football tickets at gate prices for all home games of Boston College and Harvard. Reserve seats may be obtained up to 5 p. m. tonight for tomorrow's Columbia-Harvard game.

Sailing Season Under Way Regattas On Weekend

BY EDWARD KAPLAN, '56

The Fall inter-collegiate and intra-mural sailing season is now well under way.

Preliminary eliminations for the "110-class sloop" championship. (Ford trophy), have been held and won by Ted Garcia '55, and Bill Sheppard, a graduate student.

The Institute Sailing Team tied the Coast Guard for third place in the annual Coast Guard Quadrangle held on the Thames River at New London last Sunday. Harvard was first and Tufts placed second in the three class contest.

Two regattas are scheduled for this weekend. On Saturday and Sunday the Sailing team hopes to be able to retire the Danmark Trophy by winning the contest at the Coast Guard Academy for the third time.

On Sunday, the Institute will play host to Harvard, Williams, Worcester Polytechnic Institute, Yale, Trinity and Holy Cross, on the Charles River.

Industrial Program Has Two Officers Newly Appointed

Appointment of Thomas Cantwell, Jr., of Cambridge, Mass., and of Eugene B. Skolikoff of Jackson Heights, New York, as Industrial Liaison Officers at the Institute was announced today by William R. Weems, Director of M.I.T.'s Industrial Liaison Program.

Mr. Cantwell received the degrees of bachelor of science and master of science in chemical engineering from the Institute in 1948 and 1949 and the degree of master of business administration from Harvard University in 1951. While studying at M.I.T., he also attended the engineering practice school at Oak Ridge, Tennessee.

Mr. Cantwell has been associated with the Buffalo Electric Chemical Company and the Procter and Gamble Company. Prior to his M.I.T. appointment, he served as a chemical engineer with the firm of Ionics, Incorporated. He is a junior member of the American Institute of Chemical Engineering and a member of Tau Beta Pi.

Mr. Skolikoff received the degree of bachelor of science and master of science in electrical engineering from the Institute in 1950 and the degree of bachelor of arts from Oxford University, where he studied under a Rhode's scholarship, in 1952.

While studying under the Institute's cooperative program in electrical engineering, Mr. Skolikoff served with the General Electric Company. He has also been associated with the Servomechanisms Laboratory at M.I.T. and with the High Voltage Institute at Upsala University in Sweden. He is a member of Sigma Xi, Tau Beta Pi, and Eta Kappa Nu.

Library System Renovation Allows All Schools Space

As part of the general changes in the physical plant of the Institute, the library system has been renovated. The new system has the library consisting of the Central Library and five divisional libraries, one for each of the schools of the Institute.

The Central Library is still located on the second floor of Building 14, south wing. The Humanities Library will also be located here when all moving is completed. The Architecture Library will remain on the second floor of Building 7. The Dewey Library of the School of Industrial Management has been moved from the first floor, south wing of Building 14 to the second floor of the Sloan

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NEW COURSE XII HEAD



Prof. Troost Appointed Head Of Course 13; Rates Institute Highly

Professor Laurens Troost, newly appointed head of the department of Naval Architecture and Marine Engineering, said in an interview with the Tech, that educational opportunities at M.I.T. roughly equal those at the best European schools and that in research, M.I.T. outstrips even the best European institutions. Professor Troost emphasized that a really exact comparison is difficult because the whole philosophy and program of education is different in America. European students are entirely on their own. The only inducement to attend classes or to study (other than a desire to get an education) are examinations every spring and fall which a student may continue to take until he passes.

A social difference between the United States and Europe which struck Professor Troost particularly is the fact that here there is no strong "worker's party" or other evidence of class distinctions. He said that

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Reserve Officer's Commissions Now Made Indefinite

Statements issued to *The Tech* last night by the Executive Officer of the M.I.T. R.O.T.C. Detachment, Colonel Hall, dispelled a large number of rumors concerning advance course R.O.T.C. contracts. There had been the impression that the Reserve Act of 1952, an amendment of the acts of 1916 and 1932 forced R.O.T.C.

men accepting reserve commissions to remain indefinitely in the armed services, instead of serving for a total of eight years as prescribed by another law (which requires two years active service, and six additional years in the active reserve.) Colonel Hall stated that the Act of 1952 only makes it possible for reservist who want to remain in the Army indefinitely to do so without meeting any of the requirements of the older law. Reservists, in order to stay in the Army, formerly had to demonstrate their interest so that at the close of each five year period their activity would be sufficient to merit extension of their commissions for another five years.

The provisions which require two years active duty followed by the six

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TECH SHOW TRYOUTS

Auditions for the Tech Show will continue until Tuesday, October 7th from 4 in the afternoon until 7 at night in Building 18. Any students who can sing, dance, or act are urged to try-out. Since feminine roles are needed, Tech secretaries are also urged to try-out. Last year several bordering colleges filled the co-ed parts. Many socials during the term will supplement rehearsals. The Tech Show rehearsals will begin October 14.

JP And Field Day To Be Presented On Same Weekend

One of the main social functions of the fall, the Junior Prom, will be held this year with dances both on Friday, October 31, and Saturday, November 1. The affair will take place during the weekend of the annual Field Day events, climaxing the weekend with a Saturday night dance in the Walker Memorial. A formal dance on Friday night will be held at the Hotel Statler in Boston, while the Saturday dance is to be informal. For Friday, the noted band of Charlie Spivak will play, while the band for Saturday has not yet been announced. With ticket sales permitting, two bands will perform on Saturday in Walker Memorial, one being in Morris Hall and the other in the gymnasium.

According to Dean Jacoby of the Prom Committee, progress on the Prom has been good, and things appear ready to roll. The committee is composed of the president of the Junior Class, Bob Ward, along with the Secretary, Bob Anslow, and five elected members.

Theme for the weekend is entitled, "Strut and Stagger," quite self-explanatory when considered with the decorations which have a Halloween motif.

Advance tickets for groups of five couples or more will go on sale October 13. The reason for this is to reserve tables for large parties. Price for both dances together is \$8.50, and for the Saturday dance only, \$2.00. It should be noted that the over-all price is slightly lower this year than last.

This year's dance is not financed by the Junior Class or any other organization. Tickets, the committee states, are priced as low as is practical.

Husband-Wife Student Team Featured In Sept. Issue of Mademoiselle

BY STEVE COHEN

Two Institute students are featured in the September, 1952, issue of the popular women's magazine, *Mademoiselle*.

When Science is Major, by Nancy Lynch, shows Mr. and Mrs. John Fitzgerald at work in an M.I.T. laboratory. He's an M.D., at the Institute on an American Cancer Society Fellowship. She's a Ph.D. candidate here and also holds a scholarship.

Discussed in the article are the opportunities for young women with B.S. degrees to advance in the field of Science as laboratory assistants. The story emphasizes the fact that the acute shortage of engineers and scientific personnel eliminated the need for anxiety over finding a position, and that the improvement of the situation is not foreseeable in the near future. The authoress states that the need for extensive and expensive graduate work is unnecessary although desirable, and gives several examples of the success of women as research helpers. Included in the feature is a list of those colleges considered by scientists as giving the best science preparation.

As Mrs. Lynch says, "It seems plain that in this league no science major is a minor—even when she's a woman."

Selective Service Test To Be Given At Tech On Dec. 4

The next Selective Service System College Qualification Tests, established as a result of the 1951 Congressional Amendments to the Universal Military Training Act, will be held at the Institute December 4, 1952 and April 23, 1953.

These tests grew out of the Congressional declaration that adequate provision for national security requires maximum effort in the fields of scientific research and development. Congress authorized the President to provide for deferment of any or all categories of persons whose activity in study is found necessary to the maintenance of the national interest, health and safety, the intent being that such students should be deferred until they have completed their college training.

Use of the tests by the Selective Service System was originally proposed as a result of recommendations of the six Scientific Advisory Committees appointed in 1948 by General Hershey. Once the tests had been formulated, the Educational Testing Service, noted for its testing programs, was designated to carry out construction of the test.

The passing mark, which entitles a student to reclassification from 1-A to 1-S or 2-S, if his draft board sees fit, is 70 per cent. In the past two series given, sixty-four per cent of the examinees scored seventy or better on the first and fifty-eight per cent scored passing marks on the second.

Students eligible to take this test must intend to request deferment as students, must be pursuing a full-time course, undergraduate or graduate, and must not have taken the test previously. All eligible students should take the test regardless of their status with the R.O.T.C., except veterans, who have a draft classification of lower than 2-S.

To apply to take the test, one must file the application cards available at Room 7-102 before November 1. Each student will be required to present an official document showing his Selective Service number and the exact designation, number, and address of his local draft board having jurisdiction over him. Those who do not possess these data should write their local boards at once to obtain the information.

According to the Educational Testing Service, it will be greatly to the student's advantage to file his application at once, regardless of the date

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New Fiber-glass Replaces Wood On Tech Dinghies

The Nautical Association has put the first of 40 new Institute-designed fibre-glass dinghies into service on the Charles River. The rest are to be delivered to the Institute boat house later on in the fall. In its trial tests, the new craft proved to be slightly faster sailing than its wooden predecessor, while retaining all the stability of the older boat.

Prof. Owen, Designer

The new vessels were designed by Professor George Owen (ret.) of the Department of Naval Architecture, (as were the original wooden ones,) and are being built by the Beetle Boat Co. of New Bedford.

The success of the design seems to be borne out by the fact that both the Midwest and Pacific Coast Intercollegiate Sailing Associations have adopted it as their official sailing craft.

The Tech

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NIGHT EDITOR: Mark Caplan '54

TUITION BY INSTALLMENTS

The recently announced tuition increase has in this period of rising inflation raised doubts in the minds of students and parents on how to continue to finance a college education.

In this connection we hear that this summer Stevens Institute of Technology proposed a plan—now in effect—designed to ease the burden.

The plan is based on a loan made by one of several banks who cooperate with the college in this respect. Students who so wish receive at the beginning of the academic year a loan, which may cover fall and spring term tuition, and expenses for books, supplies, dormitory charges as well as tuition and camp fees for the summer session if requested. The loan is paid off monthly at an interest rate of 4%, with no additional charges.

The plan is in effect the purchase of a college education on an installment plan. It does away with the accepted procedure that fees must be paid *en bloc* at the beginning of an academic session, and is of particular benefit to those parents and students who are forced to pay college expenses from current income.

The Technology Loan Fund is an extremely beneficial and liberal organization. However it is of a somewhat different character than the Stevens plan: the Loan Fund with its very low 1% interest rate and with its fairly strict requirements (a cum of 3.5 is necessary, freshmen are not eligible and amounts are limited to the cost of tuition only) it has certain characteristics of the scholarship.

The Stevens plan, on the other hand, is a pure business arrangement. It does not specify minimum academic standards, freshmen are eligible, and the amounts available may exceed the cost of tuition. From the point of view of college authorities it has the advantage over the Technology Loan Fund in that responsibility for repayment of the loan is taken by the bank and not by the college.

The two plans are not mutually exclusive and could operate side by side here at the Institute. The good will of the Institute is such that finding banks to cooperate in the plan should not meet with any difficulties. In the interests of higher education it is well worth the effort.

THE ISSUE OF TELEVISION

The economic and moral issues involved when sports promoters decline to furnish television and broadcasting rights, came, after the end of the college football controversy, once more into sharp focus on the occasion of the recent heavyweight boxing championship.

Then, from among many millions interested in the match, only those relatively few who were in a position to secure tickets to the Municipal Stadium in Philadelphia or to a few selected cinemas across the country, had a first hand view of the event. Normal TV channels were blacked out and no radio broadcast was made.

Those who invest in a radio or a television set do so in the hope that they will be able to get all the advantages of modern scientific progress. They want to be able to see some outstanding sports event like the recent championship fight without the expense of buying admission to a stadium or movie.

Radio and TV sponsors are prepared to pay large sums of money for the right to broadcast such events. Promoters may reckon in spite of this that higher profits are to be had by withholding these rights, and they act accordingly. But in so doing they show a censurable disregard for the responsibilities which they have towards the public.

Not only the ethics of the situation, but also a realistic appraisal of present trends should motivate a change in outlook.

Statistics show that production of TV sets has risen several 100% since the end of the war, with no levelling off of the production curve in sight. As a civilization progresses materially, it becomes less prone to physical exertion; and it is quite conceivable that in the future, top TV sponsors may start promoting sports. Present promoters, at a disadvantage, would be obliged to give way; in the same way that televised movies are already causing Hollywood producers to look at the moving picture business in an entirely new light. Movies as such may disappear, and lead to a rebirth of the play—this time enacted in a TV studio—as a popular form of entertainment.

A hundred years from now may see the athletic stadium devoid of stands, and have boxing, baseball and other sports televised from spacious studios of a type for which plans are already in existence.

Producers of popular forms of entertainment who have hitherto considered television as an evil to be combatted should re-examine their point of view thoroughly, and observe this most modern of communication media in its true perspective.

LETTER

To the Editor of THE TECH:

The Institute is at present undertaking a gigantic \$15,000 renovation of the Master Suite Lounge in Baker House. It has acquired some fine architects in the firm of Anderson & Beckwith and is pushing the project to rapid completion. Also, under construction is an adjacent music room.

This, on first glance, looks like a very noble gesture to the students there but this observer was able to glance at the plans and despite subsequent discussions with the administration still questions whether the room is being renovated in accord with student desire.

The Master Suite Lounge is a room which is located on the extreme eastern end of the New Dorm away from the general living quarters of the House. Its area and fireplace commend it as an ideal room for small informal parties and has been used almost exclusively as such in the past. Each weekend, and occasionally on a weekday afternoon, it is reserved, not only by Baker House residents, but also by other activities, like AICHE, for dances and beer parties. It has also been the scene of the very fine dance program of instruction sponsored by the Dormitory Social Committee.

The room is at the present time, however, extremely cold. Asbestos covered pipe against a bare brick wall greet any entrant and no permanent furniture exists. In short, it lacks convenience and warmth.

The Baker House Committee was slow in working up anything to ameliorate the situation, but last spring it finally came up with some plans. These envisaged running water, a bar for serving refreshments, a cabinet for the glasses, a refrigerator cabinet for storage, an enclosed portion for a piano and drapes and paintings to cover the pipes and walls. These plans called for a now seemingly modest \$3,000. They were conceived by a Course IV student after much resident participant discussion.

How this student conception compares with what the Institute is about to do is difficult to comprehend. But Anderson & Beckwith will now proceed to turn this 'back' room into of all things "a sitting room."

Full length carpeting, massive leather divans, tables, and luxurious chairs will now grace the heretofore party room. The parties, dancing, social programs seemingly have not made inroads on the thinking of the Institute stalwarts. The Institute has long prided itself on maximum student participation in formulating and accomplishing its goals. This is not a good example. What happened to the student plan is anybody's guess, there being no mention made of most of its features.

What with the M.I.T. social calendar looking so bare this term it is difficult to figure how or where students are to gather these days for good college fun.

Edward Facey '52

Reserve

(Continued from Page 1)

year period in the active reserves still stand.

An example of the application of both laws explains the situation: A student of the 1953 class is commissioned. He now must serve for two years on active duty and for six more years in the active reserve. Thus, at the end of five years, under the old law, there would have been no question concerning the continuation of his enlistment, for he had been required to have been active. However, at the end of ten years, he would have completed his second five year period under the old law, and might have been inactive during the last two years of that second five year period; then the old law's provisions might automatically have terminated his commission. Now that commission will continue until the officer retires or resigns.

Officers commissioned from the R.O.T.C. may still resign any time after they have completed their promised period of eight years service.

The new law, applicable only to Army and Air Force officers place all services on the same footing; the Navy and Marine Corps have been commissioning their officers for an indefinite period for some time.

Library

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Building 52. The Science Library now occupies the space vacated by the Dewey Library.

Dome Renovated

The Engineering Library is in the Building 10 dome with the exception of the Aeronautical Engineering collection, which will remain in Building 33. The dome will be repainted and relighted, and the acoustics improved. A new ventilation system will also be added to make the library more appealing.

Chemical Engineering literature will be in the Science Library. The old Humanities Library on the first floor, north wing of Building 14 will now house Literature, Reserve and Recreational books.

As a special aid to students, the Science Library will be open Monday through Saturday from 8:00 a. m. until 11:00 p. m., and on Sunday, from 1:00 p. m. until 9:00 p. m.

Dewey Library Completed

Total number of volumes in the library is now over 480,000, 17,000 of which have been acquired within the past year. In addition, there are approximately 75,000 uncounted volumes on the shelves.

The general purposes behind these changes in the library system are to provide a more judicious use of space, less clerical work for employees, longer library hours, and the maximum benefit to the Institute. Thus far, only the Dewey Library is completely finished, but the others should be soon. It is hoped that when they are, these general purposes will be realized.

ATTENTION UNDERGRADUATES

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TECHNOLOGY STORE

The COLLEGE DANCE CLUB starts its 7th successful year!! This Club's purposes are to provide for college students an enjoyable dance in the atmosphere of a first-class hotel and to provide the opportunity for meeting other college students from the various campuses. These dances have been so successful that they have been operating 52 weeks each year for the past 6 years.

Admission is by membership card. Membership cards are obtained only after some visible proof of educational status has been presented, such as, bursar's receipt, college ring, etc.

These dances are held every Friday at the Hotel KENMORE from 8:30 to 12:30 and every Saturday at the Hotel SOMERSET from 8:30 to 12. Stags—\$1.20.

Come see us—win friends—and have a wonderful time!!!

Soccer Activities To Start ; Coach Martin Expects Success

The Beaver Soccer Team began its activities for the season last Monday. Both Freshman and Varsity squads appeared for the first practice of the season. Coach Ben Martin said that there was an excellent turnout and he has high hopes for a very successful season this year. However, there are still plenty of openings for anyone who is interested. The team practices every day from 4:30 to 6:00 at Briggs Field and anyone can contact the coach at this time.

Schedule

Their first game of the season is with Trinity at Tech on Saturday, October 11. Both Freshmen and Varsity teams will compete. Martin has placed a great deal of hope on two upperclassmen, Sarroga and Alles who play center and fullback respectively. These two are very ably assisted by four sophomores who are just up from the freshman team: Rizo-Tatron Suarez, Arrera and Nieto. Martin is enthusiastic about these players and expects a great deal from them.

Prof. Troost

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the main reason the Socialistic and Communistic parties are so strong in Europe is that most workers there think of themselves as belonging to a distinct class whose interests are represented only by these parties.

Professor Troost was so well impressed with this country and the Institute that, when he received his appointment, he decided to leave Holland and make a fresh start here. This was a big decision because he has many personal attachments in the Netherlands and because currency restrictions allowed him to transfer only \$200 of his property and financial holdings to this country.

However, the decision was made, and, by now, the Troost family has adjusted to the new life. The Professor has taken out his first papers, the family has made many close friends among the faculty, and his two sons are enrolled in the Institute. One, Daan, is a freshman this year while the other, Marius, plans to start graduate work in Course X this month.

The Professor's main worry now is to find two competent musicians to join with him and Professor Den Hartog in a string quartette. Professor Troost, an accomplished violinist, intercalated a year of musical training into his technical education.

Professor Troost's wide experience in his field has been accumulating since his youth when he watched ships steaming up and down the harbor near his home in Rotterdam, but his most important position was director of the ship model basin at Wageningen from 1929 to 1951. This famous basin tests up to 120 self propelled models per year for commercial ship-builders and for the Dutch navy. During the German occupation, the laboratory devoted all its time to research because testing contracts stopped coming in. This research formed part of the material included in a comprehensive text, *Resistance, Propulsion and Steering of Ships*, which was written during the slack war years by Professor Troost and two of his colleagues on the basin staff. Toward the end of the war, Professor Troost undertook the redesign and modernization of the Dutch coastal-trade and fishing fleet which had been destroyed and, in 1949, received the gold De Ruyter medal for this service.

Although he does not believe any radical changes in the Department of Naval Architecture are needed, Professor Troost intends to emphasize research more than has been done in the past. He plans to promote a laboratory for testing structures used in ships and to continue the work being done of skin friction at the M.I.T. towing basin.

Way Back When !!!

Varsity Crew Defeats Cornell By Two and Three-Quarters Lengths In First Important Crew Victory

At last it happened. After going through the stages of development and performing in a mediocre manner since crew was inaugurated, Technology has at last made a place for herself in the crew world. Coach Bill Haines' varsity defeated Cornell over a two-mile course on Cayuga Lake Saturday and defeated them decisively, leaving no question as to which was the better eight. Almost three lengths separated Captain Eaton's boat from the Cornell shell when the Engineers crossed the line a winner in 11 minutes 6 2/5 seconds.

First Defeat

Saturday's victory marks the first time a Technology crew has defeated one of the recognized leaders among the college crews of the East, and definitely stamps Coach Haines' oarsmen as future contenders for eastern crew honors. Crew followers had high hopes for next season, few dared hope a victory this year against the crews scheduled, but Coach Haines turned the trick and what he said the other day has been the keynote of the crew's spirit. "We will not be satisfied until we win a victory, and after that not until we continue to win victories."

Row In Borrowed Shell

Captain Eaton's oarsmen took the lead at the start, held it throughout the contest, and gained a little on Cornell on the final stretch of water near the finish. Cornell never threatened Technology; although they did try to put on a burst of speed during the course of the race, they were not

able to keep up the pace. The Engineers appeared to have the advantage in everything except weight; they rowed better, had the reserve power when stroke Valentine called for it, and used good judgment as to putting over the final punch. More credit is due to the crew because they rowed in a borrowed shell; they had only one day to get used to a boat in which they had never rowed before while of course Cornell had their own shell.

Congratulations

All who watched the race congratulated the Engineers on their showing and the Cornell coaches Hoyle and Newman gave Coach Haines the warmest of compliments for the way the crew performed. The showing Technology made was commented upon by the followers of the crew in the East who were present and the opinion seemed to be that a new opponent who was worthy of competing with first class crews was more than welcome in college crew circles.

* * * *

This inspiring race took place on Cayuga Lake on Saturday, May 10, 1924. Since then the boathouse has acquired numerous shells and the best of equipment.

Varsity Coach Jim McMillin and Frosh Coach Chuck Jackson have produced many notable crews and have helped make crew one of the most avidly followed sports at Tech. With the arrival at the Institute of many tall, husky freshmen, the crew mentors look forward to a noteworthy Beaver Crew in the near future.

COOP NOMINATIONS

The Stockholders at their annual meeting on Wednesday, October 1st, made the following nominations for Stockholders, Officers and Directors:

STOCKHOLDERS: to hold office for five years

Francis M. Rogers

E. Pennell Brooks

OFFICERS: to hold office for one year

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From Officers of Harvard

William J. Bingham

From Alumni of Harvard

Jay F. Koogie

From Students of M.I.T.

James M. Storey

From Harvard Class of '53

Daniel Lee Ritchie

From Harvard Class of '54

John Timothy Anderson

From Harvard Class of '55

Thesis In Course X Permits Exploring New Science Fields

Recent thesis offerings in the Chemical Engineering Department point the way to fabulous new fields in technological development, all the way from making fresh water from seawater by an economically practical process to the development of practical nuclear power plants.

Under the direction of Dr. Edwin R. Gilliland, acting head of Course X, seniors in that course now can work on a new process which Gilliland, president of Ionics Incorporated, pioneered and which permits the cheap manufacture of fresh water from seawater by a new unit process, ion-exchange. The revolutionary new process requires no supply of expensive chemicals and uses only a fraction of the heat required by the only other process heretofore applicable, distillation.

Development of the fluidized bed, a technique largely developed by Professor Warren K. Lewis, lecturer and professor emeritus, will continue in a series of Bachelor's thesis offered this term.

Professors Pigford and Benedict are offering thesis in nuclear technology to seniors and graduate students. The thesis, largely resulting from recently-declassified material, will carry further along the path of development, plans for nuclear power stations.

Recognition of the serious shortage of elemental sulfur is made in the thesis offered in the course this year. The extraction of sulfur from pyrites is the subject of two theses offerings, and will be carried on as a possible solution to the almost crippling shortage of sulfuric acid which the world's chemical industries are feeling today.

Other subjects are directed at improving existing theories of mass transfer, particle entrainment, and distillation.

At a recent gathering of Course X seniors, Gilliland stressed the value of the thesis to students. He described it as an experience not gained in any other educational offering at Technology, and praised it for the chance it offered the student for developing his ability, resourcefulness, and ingenuity.

Gilliland stressed the fact that Course X had always felt that the thesis was a valuable educational tool, and explained that the object of requiring it for graduation was not to force the student to make a contribution to science as much as it was to give him a chance to develop himself into a better technical man.

Three Eastern Students Now Attending Institute On Rotary Fellowships

Under terms of the Rotary Foundation Fellowships three graduate students, J. H. B. George of Swansea, Wales, Andre Misk of Beyrouth, Lebanon, and David A. Shutt of Burnley, England, are now attending the Institute. They are among 111 young men and women from thirty-four countries awarded Rotary grants for the current school year.

Mr. George, who is studying chemical engineering, received the degree of bachelor of arts from Jesus College of Oxford University (England) in 1949. He was a college prizeman having achieved First Class in the Honor School of Chemistry.

Also planning a career in chemical engineering, Mr. Misk is studying industrial chemistry. He received the Baccalaureate degree from the American University of Beirut in 1945, and the degree of engineering from the National Superior School of Mines in Paris last July.

Dr. Shutt was graduated with the B.S. degree from the University of Birmingham, England, in 1947 and received the degree Ph.D. from the same university in 1950. Since then he has been employed as a metallurgist by the National Smelting Company in Bristol, England. He is continuing his work in metallurgy at the Institute.

Since the Rotary Fellowships program was inaugurated in 1947, awards have been given to 394 young men and women in forty-eight countries of Europe, Asia, Africa, and North, South and Central America, as a means of promoting international understanding, good will and peace among the peoples of the earth. Grants for the one year fellowships range from \$1800 to \$3400, and already total over one million dollars.

Candidates must be endorsed by the Rotary Clubs in their home towns and must be within the age limits of 20 and 28 years. They must have a college or university degree, a record of high scholastic standing, and a thorough knowledge of the language of the country in which they propose to study. Ability to make friends easily, international mindedness, and leadership ability are also considered. No regard is given to race, creed, or citizenship.

THE FIRST CHURCH OF CHRIST, SCIENTIST



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Sunday School 10:45 a.m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing.

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237 Huntington Avenue
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Authorized and approved literature on Christian Science may be read or obtained. ALL ARE WELCOME

A Message to Engineers
from
Walter Tydon*



"A secure future, exceptional opportunities for advancement, and a high starting salary await you at FAIRCHILD, if you are one of the men we are looking for. We have openings right now for qualified engineers and designers in all phases of aircraft manufacturing; we need top-notch men to help us in our long-range military program: turning out the famous C-119 for the U.S. Air Forces.

"FAIRCHILD provides paid vacations and liberal health and life insurance coverage. We work a 5-day, 40-hour week.

"If you feel you are one of the men we are looking for, write me. Your inquiry will be held in strictest confidence, of course."

Walter Tydon

*Walter Tydon, widely known aviation engineer and aircraft designer and veteran of 25 years in aviation, is Chief Engineer of Fairchild's Aircraft Division.

ENGINE AND AIRPLANE CORPORATION
FAIRCHILD Aircraft Division
HAGERSTOWN, MARYLAND

NOTICES

PHOTOGRAPHIC EXHIBITION

There will be a Photographic Exhibition by Ansel Adams from October 15 to November 5 at the new gallery of the Charles Hayden Memorial Library.

LSC LECTURE

Blanche Yurka will give a solo performance of "Great Scenes from Great Plays" this afternoon at 5:00 p. m. in Room 10-250. This LSC presentation is admission free.

MECH. ENG. SOCIETY

"What does the Mechanical Engineer do in Industry" will be Professor C. R. Soderberg's topic at the opening meeting of the Student Branch of The American Society of Mechanical Engineers. Professor Soderberg is the head of the Mechanical Engineering Department at the Institute.

The meeting will be held in Room 1-190 on Monday, October 6th, at 5:00 p. m. An opportunity will be afforded at this time for those who desire to join the Society to do so.

MANAGEMENT ASSOCIATION

"What Industry Expects from Course Fifteen Graduates," will be the subject of a talk by Lawrence A. Apley, president of the American Management Association to be held at 4:00 p. m., Friday, in the Faculty Club Lounge. This lounge is on the sixth floor of the Sloan Building on Memorial Drive.

Everyone, including freshmen, considering enrolling in the new School of Industrial Management next fall is cordially invited to attend. Coffee and refreshments will be served. At the end of the meeting, ample opportunity will be given to join the MITMA.

ACTIVITIES MEETING

All Class A activity representatives must meet in Room 3-370, October 9, at 5:00 p. m. A similar meeting will be held in Room 3-370, October 7, at 5:00 p. m. for Class B representatives. The penalty for absence is temporary suspension.

The purpose of the meetings is to acquaint the representatives with the capacities invested with the Secretariat in regards to the activities. This is the reason for extreme importance attached to attendance.

HI-FIDELITY

The successor to the Baruch-Lang corner enclosure may be seen and heard at the Kelton Co., 958 Massachusetts Avenue, Cambridge, Mass.

Using only 1.7 cubic feet of space, the Kelton system accomplishes what many hi cubic content, hi cost speakers fail to do. True bass response and smooth extended high frequency response are now available in small packages. Carboneau Industries working in close co-operation with Mr. Lang have developed special loudspeakers specifically for the Kelton Co. These speakers together with the latest developments in the Baruch-Lang system form a unit which is superb in quality at a fraction of the cost of comparable systems.

The Kelton "diplomat" may be seen and heard now. It will be available at a special introductory price of \$35.00 to students on October 20.

WGBH SCHEDULE

WGBH is a non-commercial, educational, frequency modulation station operated with the advice and cooperation of the Lowell Institute Cooperative Broadcasting Council. Members of the council are The Lowell Institute, Boston College, Boston Symphony Orchestra, Boston University, Harvard University, M.I.T., Museum of Fine Arts, New England Conservatory of Music, Northeastern University, and Tufts College. The studios are located in Symphony Hall, Boston, and the transmitter is at Great Blue Hill, Milton. WGBH broadcasts on 89.7 megacycles.

SCHEDULE

FRIDAY, OCTOBER 3, P.M.

- 3.30—News, weather, highlights.
- 3.35—The Tragic Sense in Modern Literature. Harvard Summer School, 1951. Pierre Emmanuel.
- 4.30—A Basic Record Library: Chamber Music. (Consultant: Klaus Roy, Boston University). Program: Mendelssohn, Octet; Walton, Quartet in A minor; Beethoven, Quartet No. 14 in C-sharp minor, Opus 131.
- 6.00—News. Louis M. Lyons, Harvard University.
- 6.15—Faculty Report.
- 6.25—Music to Dine To.
- 6.55—U. S. Weather Bureau Report and Forecast (from Logan International Airport).
- 7.00—Tell You a Story. Johnny Pye and the Fool-Killer by Stephen Vincent Benet. Professor Donald Born, Boston University.
- 7.15—A Day in the Life of . . . The Speaker of the House of Commons (BBC). Sir Ralph Verney.
- 7.30—Early American Literature. Harvard Summer School, 1951. Professor Perry G. E. Miller, Harvard University.

- 8.30—BBC Opera. Excerpts from Cupid and Death, a 17th century masque by James Shirley, with music by Matthew Locke and Christopher Gibbons; and Savin, by Gustave Holst.
- 9.35—News. Louis M. Lyons (rebroadcast). Weather, highlights.

SATURDAY, OCTOBER 4, P.M.

- WGBH FIRST ANNIVERSARY
- 3.30—The Presidents and Directors of Lowell Institute Cooperative Broadcasting Council Members. Ralph Lowell, Trustee, the Lowell Institute; Very Reverend Joseph R. N. Maxwell, S.J., President, Boston College; Henry B. Cabot, President, Trustee of the Boston Symphony Orchestra; Harold C. Case, President, Boston University; James Bryant Conant, President, Harvard University; James R. Killian, Jr., President, Massachusetts Institute of Technology; George Harold Edgell, Director, Museum of Fine Arts, Boston; Harrison Keller, Director, New England Conservatory of Music; Carl S. Ell, President, Northeastern University; Leonard Carmichael, President, Tufts College.
- 4.00—WGBH and Educational Broadcasting. Discussion by the Trustee of the Lowell Institute and Coordinators of the Lowell Institute Cooperative Broadcasting Council. Rev. Thomas F. Fleming, S.J., Boston College; George E. Judd, Manager, Boston Symphony Orchestra; Professor Leo A. Martin, Boston University; David W. Bailey, Harvard University; John E. Burchard, Massachusetts Institute of Technology; William German Dooley, Museum of Fine Arts, Boston; Harrison Keller, New England Conservatory of Music; Professor Milton Schlagenhauf, Northeastern University; Provost John P. Tilton, Tufts College; special messages by former coordinators: Rev. David R. Dunigan, S.J., College of the Holy Cross, and Professor Samuel B. Gould, Boston University; Ralph Lowell, Trustee of the Lowell Institute, Chairman.
- 4.30—Highlights from Afternoon Courses Recorded in the Classroom. The Forms of Drama; Professor Marston Balch, Tufts College. United States and World History; Professor Thomas H. D. Mahoney, Massachusetts Institute of Technology. Introduction to Psychology; Dr. Edwin R. Newman, Harvard University. Masters of Modern Drama; Dr. William B. Van Lennep, Harvard University. The Romantic Movement in English Literature; Professor P. Albert Duhamel, Boston College. Twentieth Century Nationalism; Professor Hans Kohn, College of the City of New York. The

- Tragic Sense in Modern Literature; Pierre Emmanuel.

- 5.10—Highlights from Music Courses. Music of the Ballet; Baird Hastings. Two Hundred Years of the Symphony; Professor Tucker Keiser, Northeastern University. Tomorrow's Symphony; Professor G. Wallace Woodworth, Harvard University. The Madrigal; Lorna Cooke DeVaron, New England Conservatory of Music. Music of the Baroque; Allen Sapp, Harvard University.
- 5.45—Highlights from Children's Circles. Nancy Harper, Nursery Training School of Boston, Tufts College. Guests: Dr. Dora Louise Cockrell, Director, Nursery Training School and Dr. Abigail A. Eliot, Pacific Oaks Friends School; formerly Director, Nursery Training School.
- 6.00—On the Death of Harold Ross, Louis M. Lyons, Harvard University.
- 6.10—Highlights from Faculty Report.
- 6.20—International Broadcasts. Selections from British Broadcasting Corporation, Radio-diffusion Francaise, Radio Munich, Radio Eireann, Canadian Broadcasting Corporation.
- 7.00—WGBH Features. Tell You a Story; Professor Donald Born, Boston University. Old Books: Old Friends. New England Conservatory Recital. Guest Collector: The Poet Speaks. Boston College Candlemas Lecture. Museum of Fine Arts Conference of Historians, M.I.T. Choral Society. Say It in French; Professor Robert K. Craven, Tufts College. Lowell Institute Lecture.
- 7.30—Highlights from Evening Courses Recorded in the Classroom. Our Changing Earth; Professor C. Wroe Wolfe, Boston University. Greek Political Theory; Professor Joseph P. Maguire, Boston College. International Politics; Professor Leo Gross, Tufts College. The Epic; Professor John H. Finley, Jr., Harvard University. How Others Live; Professor Frederick R. Wulfsin, Tufts College. Principles of International Politics; Professor Hans Morgenthau, University of Chicago. Early American Literature; Professor Perry G. E. Miller, Harvard University.
- 8.25—Boston Symphony Orchestra. Charles Munch, Musical Director. Program: Beethoven, Symphony No. 4 in B-flat Major, Opus 60; Berlioz, "Royal Hunt and Storm," descriptive symphony from "The Trojans"; Brahms, Symphony No. 1 in C minor, Opus 68.
- 10.20—Anniversary Greetings. The Honorable Paul A. Walker, Chairman, Federal Communications Commission.

SUNDAY, OCTOBER 5, P.M.

- 3.30—University of Chicago Round Table (NBC-NAEB).
- 4.00—Music of the Ballet. The Productions of Diaghilev: Boris Godounov. Baird Hastings.
- 5.00—The Jeffersonian Heritage (NAEB Tape Network). Light and Liberty. Consultant: Dumas Malone, Columbia University; with Claude Rains as Thomas Jefferson. Produced under a grant from the Fund for Adult Education, established by the Ford Foundation.
- 5.30—Netherlands Composers (Radio Nederland). Program: Badings, Introduction to a Tragedy; Utrecht Municipal Orchestra, conducted by Paul Hupperts. Voormolen, Concerto for Two Oboes; Hague Residentie Orchestra, conducted by Willem van Otterloo (postponed from September 21).
- 6.00—Faculty Report. A review of Faculty Report broadcasts of the past week.
- 7.00—Old Books: Old Friends.
- 7.30—Music of the Baroque. Richness of the Baroque. Allen Sapp, Harvard University.
- 8.30—BBC World Theatre. The Case of Henri Desre Landru. A dramatization of the French murder trial.
- 9.30—News, weather, highlights.

Selective Service

(Continued from Page 1)

he selects. Results will be reported to the student's Selective Service Board of jurisdiction for use in considering his deferment as a student.

Mrs. Lutz of the Advisory Committee on Selective Service at the Institute requests students not to apply at local board number 17 Cambridge to register or have an order for a physical examination transferred to Boston. A board of transfer has been established at the Phillips Brooks House in the Harvard Yard to take care of Tech students.

STUDENTS!

Make \$25.00

189
AWARDS
LAST
YEAR!

Write a Lucky Strike jingle!

No box tops! NO ENTRY BLANKS! It's easy!

Just write a 4-line jingle based on the fact that

LUCKIES ARE MADE BETTER

TO TASTE BETTER!*



Here's your chance to make yourself \$25. Just write a 4-line Lucky Strike jingle, based on the fact that Luckies are made better to taste better.*

Then, if we select your jingle, we'll pay you for the right to use it, together with your name, in Lucky Strike advertising . . . probably in this paper.

Read the sample jingles on this page. Then get the gang together, break out the rhyming dictionary, and start writing. It's fun! And we're buying jingles by the bushel!

Hint—if you can sing your jingle, it's a good one!

Hint—the more jingles you write, the more money you have a chance of making.

Hint—be sure to read all the instructions!

I've heard the same in every class—
In history, psych, and ec—
For cleaner, fresher, smoother smokes,
It's Lucky Strike, by heck!



I like a better-tasting smoke
And mildness counts with me.
So when I buy I keep in mind
That L.S./M.F.T.!



HERE ARE THE INSTRUCTIONS

1. Write your Lucky Strike jingle on a plain piece of paper or post card and send it to Happy-Go-Lucky, P. O. Box 67, New York 46, N. Y. Be sure that your name, address, college and class are included—and that they are legible.
2. Base your jingle on any qualities of Luckies. "Luckies are made better to taste better," is only one. (See "Tips to money-makers.")
3. Every student of any college, university or post-graduate school may submit jingles.
4. You may submit as many jingles as you like. Remember, you are eligible to win more than one \$25 award.

*TIPS TO MONEY-MAKERS

To write a winning Lucky Strike jingle, you're not limited to "Luckies are made better to taste better." Use any other sales points on Lucky Strike such as the following:

- L.S./M.F.T.
- Lucky Strike Means Fine Tobacco
- Luckies' cigarette-tearing demonstration
- Luckies taste cleaner, fresher, smoother
- Be Happy—Go Lucky
- So round, so firm, so fully packed
- So free and easy on the draw
- Buy Luckies by the carton
- Luckies give you deep-down smoking enjoyment